

1 ABSTRACT OF THE DISCLOSURE
2

3 A surgical retractor includes a "swivel" having a string
4 extending from one end and a string extending from the midpoint
5 between the two ends. The swivel is delivered by pushing it out
6 of a tube which is inserted through a small incision between the
7 ribs of the patient. After the swivel is deployed, the tube is
8 removed and the string which is attached to the center of the
9 swivel is pulled to lift the pericardium. When the procedure is
10 complete, the swivel is removed from the patient by pulling the
11 string attached to the end of the swivel. According to one
12 embodiment, the swivel is a cylinder with a blunt conical end.
13 According to another embodiment, the swivel has a sharp end which
14 is covered by a spring loaded collar.